

RS3AB~RS3MB

Rev.A Dec.-2017



DATA SHEET

50V ~ 1000V

3.0A

SMB

Surface Mount Fast Recovery Rectifiers, Reverse Voltage

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating							Unit
		RS3AB	RS3BB	RS3DB	RS3GB	RS3JB	RS3KB	RS3MB	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	$I_{F AV}$	3.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	90							A
Typical Junction Capacitance at VR=4V f=1MHz	C_j	40							pF
Typical Thermal Resistance ¹	R_{JA}	48							/W
	R_{JC}	16							
Operating and Storage Temperature Range	T_j, T_{stg}	-55~+150							

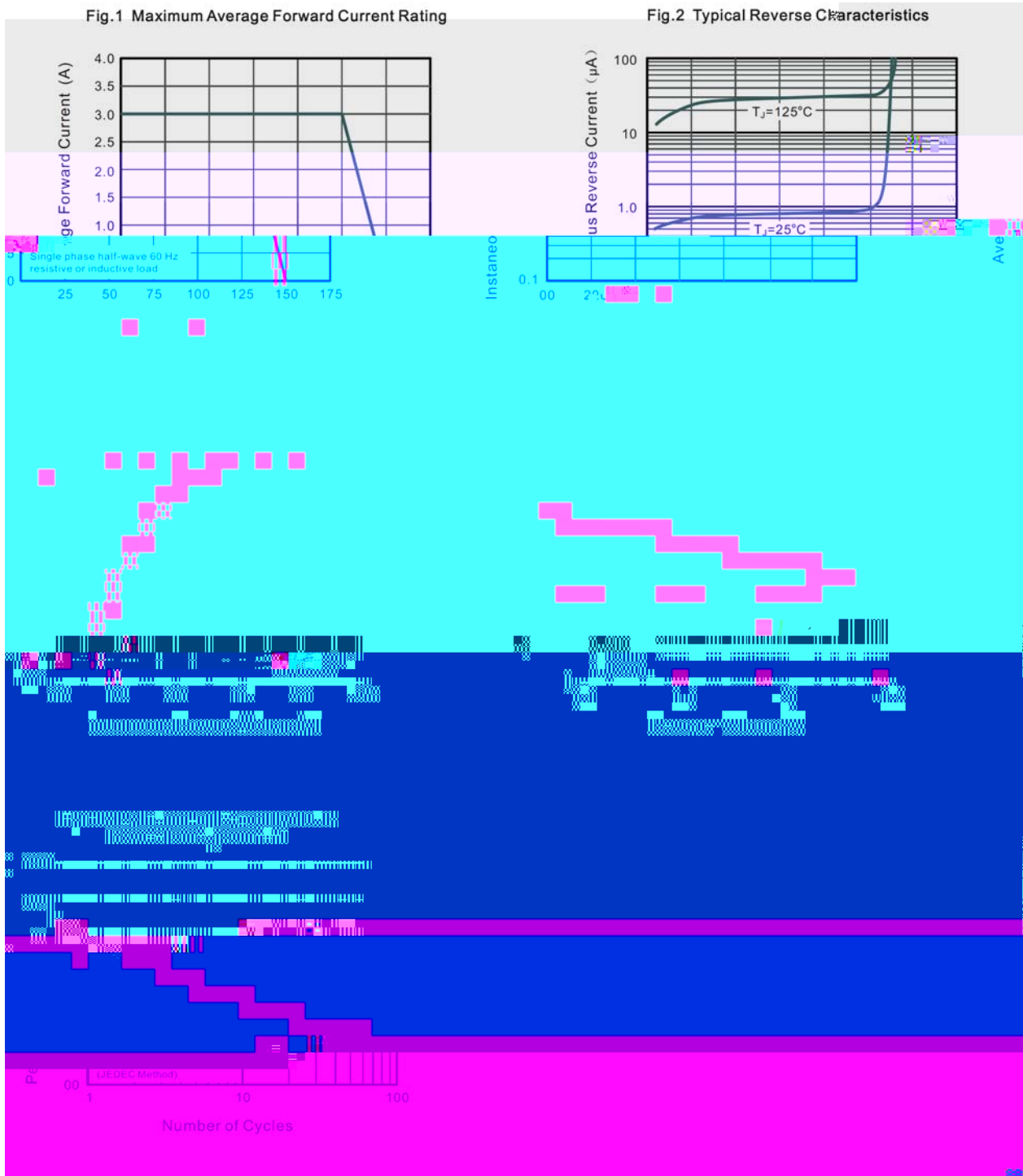
Note:

1 P.C.B. mounted with 2.0 X 2.0" (5X 5 cm) copper pad areas.

/ Electrical Characteristics(Ta=25)









Parameter	Symbol	Test Conditions	Rating							Unit
			RS3AB	RS3BB	RS3DB	RS3GB	RS3JB	RS3KB	RS3MB	
Maximum Instantaneous Forward Voltage	V_F	$I_F=3.0A$	1.3							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25$	5.0							μA
		$T_a=125$	100							μA
Maximum Reverse Recovery Time	t_{rr}	$I_F=0.5A$ $I_R=1.0A$ $I_{rr}=0.25A$	150			250	500		ns	

/ Electrical Characteristic Curve

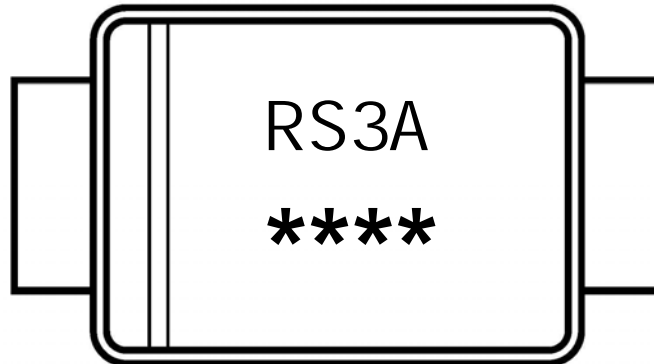


/ Marking Instructions

Marking

Type number	Marking code
RS3A	RS3AB
RS3B	RS3BB
RS3D	RS3DB
	
	
	
	

/ Marking Instructions



RS3A

1 *

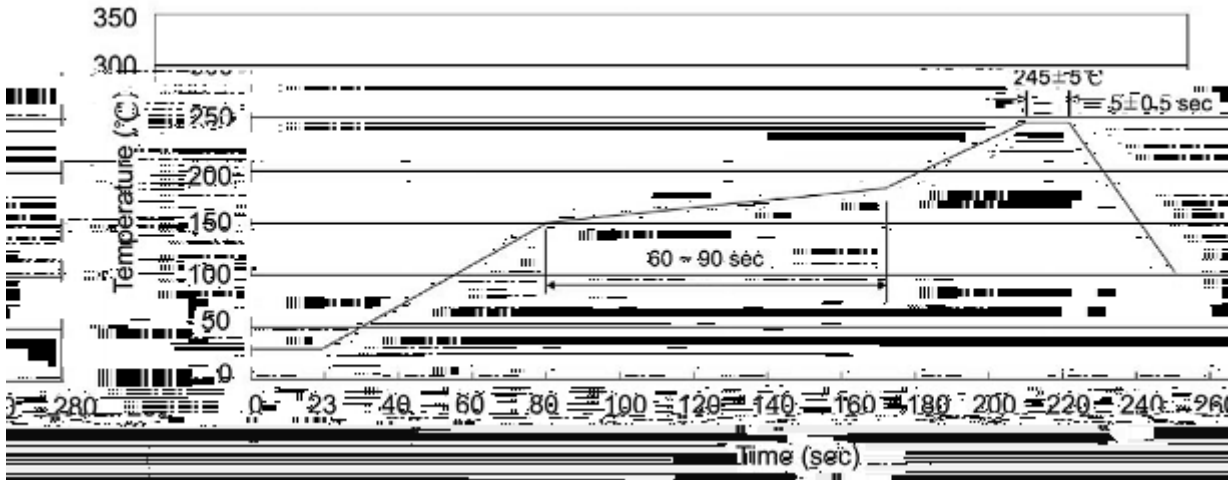
3 *

Note:

RS3A Product Type Code

**** Lot No. Code The 1st * means:YM Code The last 3 * means:little Lot No Code

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- | | | | |
|---|--------|-----------|---|
| 1 | 25 150 | 60 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 245±5 | 5±0.5sec; | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | 2 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SMB	3000	5	15000	5	75000	7 x11	185X180X105	390X385X205

/ Notices